DOC SOC

Careers Handbook
2021

Initial Information

This booklet contains information about our sponsors, and what kind of opportunities they can offer you. There is a notes section on the back of this booklet for you to write down any important details you find out! You can view the full list of sponsors by visiting **docsoc.co.uk/sponsors.**

Our sponsors will be hosting lots of events and posting many opportunities throughout the year, so be sure to read weekly Digest emails, any other special emails, and keep checking our Facebook and Twitter pages:

Facebook: facebook.com/ICDoCSoc
Twitter: @ICDoCSoc

You also have access to the **DoCSoc Sponsors Portal** which is where you can upload your CV, and find out more details about how to apply to all the companies mentioned. You can access the portal at **portal.docsoc.co.uk** *(Coming Autumn Term)*

The information in this book was provided to DoCSoc by representatives of each respective sponsor between August and September 2021. Information regarding job positions and postings may change after this book goes to print. If there are discrepencies between a job posting online and in this booklet, assume that this booklet is outdated and that the online information is more up to date.

If you have any suggestions, criticisms or other comments about this booklet and our sponsors, please direct all enquiries to docsoc@imperial.ac.uk whereupon a member of the DoCSoc committee will reply to you.

American Express

What We Offer	
Summer Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	❌
Graduate Roles	✅

American Express is continuing an exciting transformation driven by an energetic team. This diverse and creative organisation has the power to shape our technology and product roadmap. If you have an interest in improving your skills in a tech environment while meeting innovative thinkers and serving our customers across physical and digital spaces, join our transformation team!

You will have the opportunity to work across a multitude of features across our software products, like Spring Cloud and Webflux for reactive Java services, or Node.js driving React web applications and even polyglot microservices; latest versions of Kotlin and Swift language features driving the mobile team. We're often experimenting with new technologies; it's all about picking the right tool for the right job.

As part of the American Express Technology team you will have the opportunity to work on worldclass Card Member experiences on multiple channels, as well as explore different career paths through our two-year rotational programme. There is also the opportunity to choose from a number of potential roles within our Scrum teams; such as Software Engineers, Data Architects, Quality Assurance Engineers, Product Owners and hybrid roles across the organization, giving you the skills and experience to help you accelerate in your career.

What type of work can you expect to do inTechnology at American Express?

- Identify exciting opportunities for adopting new technologies to solve existing needs and predict future challenges
- Develop software applications as part of a Scrum team
- Learn technical skills, write code, conduct code reviews and testing
- Work with product managers to prioritise features for new products and manage a list of requirements based on industry trends and new technologies
- Bespoke learning and development programme, e.g. technical, leadership, networking and soft skills.
- Opportunity to impact 80 million customers' interactions with our services
- Take part in social activities, charity days, and projects with graduates, interns, and apprentices

NETCRAFT

Netcraft

GOLD

What We Offer	
Summer Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	✅
Graduate Roles	✅

About Netcraft

Netcraft is a world-leading internet security services company with offices in Bath and London. We provide services to internet infrastructure, financial services, large enterprises, and governments in over fifty countries, including six of the world's ten largest companies by market capitalisation and eleven of the top fifty banks.

In the UK we work with the National Cyber Security Centre to provide highly automated countermeasures against all kinds of cybercrime, along with seven of the eight constituents of the FTSE-350 Banking index.

Netcraft is positioned at the epicentre of the battle against cybercrime and, through its anti-phishing community, has detected and blocked over 107 million unique phishing attacks to date. Our phishing feed is consumed by all widely used browsers. We currently perform takedowns for three of the ten most phished companies on the internet and in aggregate against around 30% of all phishing attacks, running at around one takedown per minute. Over the last year we completed 3 million takedowns of over 80 different types of cybercrime.

Additionally, Netcraft performs security tests of websites and mobile applications, especially those that handle sensitive financial data, such as banks and shops. We also perform data mining activities: having explored the internet since 1995, we are an authority on the market share of web servers, operating systems, hosting providers, ISPs, Certificate Authorities, e-commerce, scripting languages and content technologies.

Opportunities

We're looking to recruit high-performing software developers to join our team, either in Bath or London. We welcome internship applications from first and second years, as well as applications for industrial placements and graduate opportunities.

Projects involve working on a range of commercial services extending Netcraft's network exploration and internet security services.

Important attributes for successful candidates:

- A broad knowledge of internet technology, together with an

attention to detail, and a desire to find things out empirically rather than rely on conjecture.

- A keen interest in network security, data mining, or web-based user interfaces.
- Demonstrable programming ability and experience.
- Expressive verbal and written communication skills in English. Skills in other languages are welcomed.
- A well-developed sense of precaution: a person who likes to plan for the future with suitable programming abstractions, automated test suites & version control.
- Prior experience with any of MySQL, Perl, Python, Rails, Git, Puppet, Amazon Web Services, JavaScript, CSS, or Unix systems programming would be helpful.

Culture

- Intellectually challenging work. We're always trying to stay one step ahead.
- Have your voice heard. We rely on all employees to come up with great ideas for improvements and new services.
- Friendly, close-knit atmosphere. We work together closely to achieve our goals.
- Performance-based bonuses. Bonuses are awarded for gaining competence in different areas of the business, making sales, or otherwise impressing.
- Free lunch. There is such a thing!

Initially, your work will be based around solving short term issues and small development projects, which allows you to discover our information flows, routines and infrastructure. You'll also learn about our phishing workflow, how to construct regular expressions, augmenting our rule-based systems, and how to perform takedowns.

From here, further options depend on interests and abilities: you could work on a larger development project, perform a Web Application Security Test, carry out a sales campaign, make improvements to an existing service, or make your own suggestion.

For students considering their final year projects, we're pleased to collaborate with students who have previously spent a summer or industrial placement working for us, on a project of mutual interest. Past projects have scored very highly, as we're able to provide support & careful guidance, a large range of data feeds, and domain-specific knowledge.

To find out more, please look at our recruitment booklet:

https://www.netcraft.com/ NetcraftRecruitmentBooklet.pdf.

Interested? Apply by emailing your CV to cv@netcraft.com.

rebellion defence

Rebellion Defence　GOLD

What We Offer	
Summary Internship (1st Year)	✕
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Rebellion Defence is a unicorn start-up, which builds products for the defence and security of the United Kingdom, the United States, and our allies.

We are seeking extremely talented software engineers who are passionate about delivering modern, life-changing products to defend democracy. We care deeply about embracing modern engineering practices to deliver value swiftly.

Rebellion is home to Silicon Valley engineers from Amazon, Google, Netflix, and Twitter, among others, who have created products and services that support billions of customers. Our advisers include those who have served at the forefront of the United Kingdom's national security and shaped the nation's understanding around the evolution of cyber threats.

Rebellion builds a variety of product lines for our engineers to work on, including:

- Comprehensive Battlespace Awareness - provides a holistic

view of the threat environment and assessment of adversary capabilities
- Autonomous Mission Execution - enables the orchestration and execution of automated operations across distributed hardware and software platforms
- Cyber Readiness - strengthens cyber readiness for critical military assets against adversarial attack

Software engineering tasks will range from building the foundational infrastructure for our large-scale cloud model training, to writing performance regression suites.

We're looking for individuals with strong programming skills and depth of knowledge in at least one software engineering toolchain and the ability to navigate a Unix shell environment. If you're excited by the prospect of working with intense, knowledgeable, and motivated individuals, then Rebellion is the place for you!

To find out more about Rebellion, visit: https://rebelliondefence.com/

nextjump

Next Jump

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Next Jump has been recognised as one of three Deliberately Developmental Organisations (DDO). We are on a mission to create high-performing workplace cultures across the globe. People development is at the heart of everything we do. We follow this simple mantra:

Better Me + Better You = Better Us.

Next Jumpers improve themselves at work (Better Me) and use that knowledge to help others (Better You), together creating a better world (Better Us).

Headquartered in New York, based in London, our cutting-edge e-commerce platform is used by 30 million employees across Fortune 1000 companies and generates $2 billion in sales every year. With our HR technology, such as DevGPS and Feedback App, we help organisations from the likes of JP Morgan Chase, the Military, through to schools/charities,

build adaptive learning teams.

The world's biggest problems can't be solved with conventional, incremental ways of thinking. Therefore, we focus on developing our employees, starting from the moment they join the company. Next Jump has engineered the fastest career development path for graduates, creating an accelerated opportunity to become Partners. As a Partner, you will have access to our premium Leadership Training Centre in London, where you will build healthy habits and train unfiltered communication. Additionally, you will learn to take risks and bold actions. We believe that these are essential to collaboration and engineering creative solutions, in order to tackle the toughest problems.

At Next Jump, you can expect regular coaching from top leaders within the organisation, including our co-CEOs, to propel your growth personally, as well as technically. As a Partner, you will be trusted at the highest level, being given responsibility, autonomy and resources to make real change not only at Next Jump, but also in the community and beyond.

We are looking for well-rounded full stack web-developers who take initiative and work well in a fast-paced environment to join us! We offer full time positions, internships and 6-month placements (the role is open to students in their penultimate year / graduates). We screen for a wide array of skills from backend to front-end, as requirements for specific

roles vary and you will move from project to project.

As an engineer at Next Jump you will be able to work across all parts of our e-commerce web platform and mobile apps and are encouraged to work with the entire stack. Don't be surprised if you are working with our dev-ops team to monitor caching performance for hotel searching with Grafana and Prometheus, and then working with the design team to improve the user journey on our travel platform UI in Vue.js!

We use a broad range of modern technologies, platforms and tools which power both our e-commerce platform and mobile apps. For example, our apps, built using React Native, are powered by cloud hosted micro-services running in Docker, using our preferred backend language, Golang. We leverage Solr to drive our e-commerce search engine and product catalogues, with Redis and Memcache allowing us to scale and serve our LAMP web application across the globe.

We're looking for driven and entrepreneurial individuals to become our Partners! If you're looking for a 'not-your-typical graduate job/internship', then we would love to meet you!
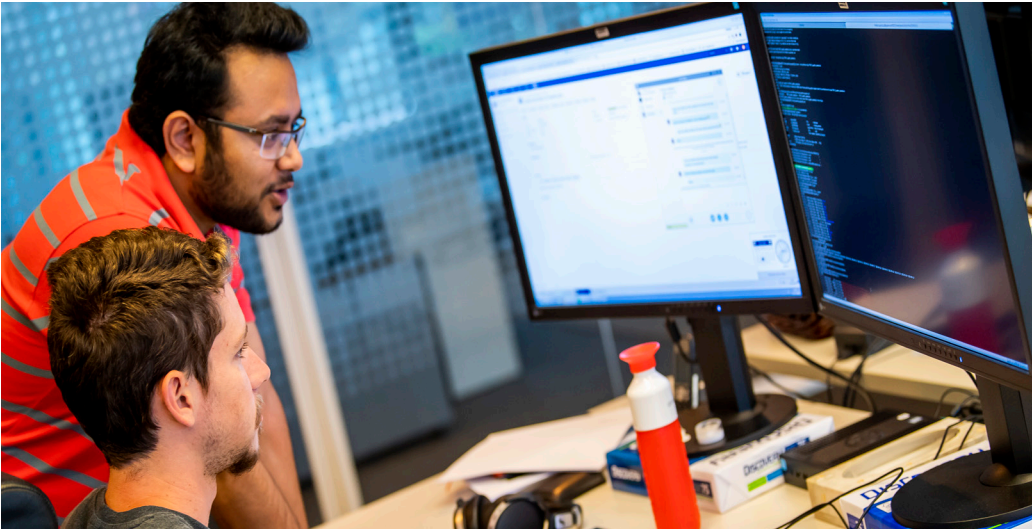
optiver ▲

Optiver

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✕
Graduate Roles	✓

Optiver is a leading global market maker driven by technology. We provide liquidity to financial markets using our own capital at our own risk. We pioneer our own trading strategies and systems using clean code and sophisticated technology to trade a wide range of products.

In order to trade optimally, we need the most advanced technology, software and connections to the market. Our high performance, low-latency trading systems and algorithms are constantly evolving. We are about clean, pragmatic code and we strive to break complex problems down into simple solutions. Engineers at Optiver take ownership of the full stack of applications and the development life cycle. Working in collaboration with our Traders and Researchers, software can be deployed the same day providing immediate results and direct impact.

OUR GRADUATE OPPORTUNITIES

Would you like to work in a highly-skilled, passionate and driven environment where there is a high degree of freedom, responsibility and reward? If so, we have exciting opportunities awaiting you here at Optiver. These include the chance to start your career with us in a full-time

role or gain an extended glimpse into Optiver and experience Technology here for yourself via our 8 week Summer Internship programme. Each position adds value to our core business, these include:

GRADUATE SOFTWARE ENGINEER – AMSTERDAM & LONDON

You will be responsible for the full stack of applications and the full development cycle, grating a lot of ownership. From day one you will handle large sets of real-time data that require high performing and easily scalable systems. Our Tech Starters programme will help you develop your technical skills and enhance your knowledge on our business. You will be guided by a Senior Developer assigned as your mentor.

GRADUATE SITE RELIABILITY ENGINEER – AMSTERDAM

Site Reliability Engineers are custodians of our trading production environment. You will maintain, monitor and improve the reliability, scalability and performance of our in-house trading software. You will closely collaborate with Traders, Researchers and fellow Engineers automating and making activities as consistent and simple as possible. You will constantly keep an eye on our trading activities, troubleshooting issues as they arise.

SOFTWARE ENGINEER SUMMER INTERNSHIP- AMSTERDAM

If you plan to graduate in 2022, you can apply to be part of our summer internship where you will be responsible for your own project from day one, guided along the way by a senior developer assigned as your mentor interact closely with traders, researchers and fellow engineers, directly impacting the end-results of the company. Join several lectures about trading and other departments to get a full understanding of our business.

Have a look at this video to get a glimpse of the Optiver internship experience and a virtual tour of our Amsterdam office.

TO JOIN US IN TECH, YOU HAVE:
- An academic degree in Computer Science, Engineering, Information Systems or equivalent
- Experience with programming in either C++, C# or Java (for the Software Engineer Graduate and Internship)
- Experience with programming in python (for the Graduate Site Reliability Engineer role)
- An entrepreneurial attitude
- Strong communication skills
- The ability and desire to write simple and clean code
- The ability to be a team player who enjoys creative freedom and independence

Check out our careers page for full details and how to apply! If you have any questions, please feel free to reach out to Jessica Lilley at jessicalilley@optiver.uk

G-Research

GOLD

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

G-Research is Europe's leading quantitative finance research firm. We hire the brightest minds in the world to tackle some of the biggest questions in finance. We pair this expertise with machine learning, big data, and some of the most advanced technology available to predict movements in financial markets.

Each year we on-board around 60 interns and placements, giving students the opportunity to gain experience in a wide variety of functions across G-Research. Our interns and placement year participants get the chance to apply their skills in a cutting-edge environment, surrounded by colleagues who are international leaders in their fields. We also offer a highly competitive salary, and a busy agenda full of social events and personal development opportunities.

Opportunities include; Quantitative Research, Software Engineering, Data Analytics, Technology and HR.

DRW

SILVER BESPOKE

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

WHO WE ARE

DRW is a diversified trading firm that utilizes our own capital and trades at our own risk. We bring sophisticated technology and exceptional people together to solve complex problems in markets around the world and across many asset classes. With decades of experience, DRW has expanded globally while staying true to what has always set us apart…our ability to identify and capture opportunities by combining technology, research, and risk management.

WHAT WE DO

Our knowledge of the markets, pricing and modeling skills, robust risk management, and application of technology work together to create liquidity, improve efficiency and capture opportunities in the global markets. Because we have no outside investors no third-party funds, we can be innovative and nimble, while using our market experience to prudently manage risk. We have the team and infrastructure in place to drive business forward without the inefficiencies that hold back other organizations. Not many places do things like we do, and we like it that way.

Our approach to technology is ambitious, yet pragmatic. Our teams are empowered to solve challenging business problems, collaborating with equally motivated traders and researchers to engineer the right solutions for the job. The result? Inventive, performance-driven systems and networks deployed across the globe.

Our continued focus on innovating, identifying and capturing opportunities has led to new strategies, businesses, and partnerships through real estate, venture capital and cryptoassets. Learn about DRW's subsidiary companies here.

WE'D LIKE TO GET TO KNOW YOU

From tuition reimbursement, onthe-job training, and a customized portal comprised of over 25 years of collective wisdom, we offer a variety of learning opportunities tailored to you and the skills you want to hone, new things you want to explore or even ways to become a thought leader for one of your passions! Check out what our interns had to say about their summer internships with us, unique solutions to complex projects and shadow project mentors.

Are you a continuous learner looking to solve complex problems and make an impact? If so, we are currently looking for talented individuals like yourself to join our team for full time and part time roles.

Learn about our full-time and internship opportunities at :
https://drw.com/oncampus

Bloomberg

Engineering

Bloomberg

`SILVER BESPOKE`

What We Offer	
Summer Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	✅
Graduate Roles	✅

Bloomberg is building the world's most trusted information network for financial professionals. Our core product, the Bloomberg Terminal, is an independent and unbiased source of information for our clients – everyone from C-Suite executives, traders, analysts, government officials, business heavyweights and news professionals around the globe.

5,000+ technologists and counting – are dedicated to advancing and building new solutions for the Bloomberg Terminal in order to solve complex, real-world problems. No other company processes the breadth and depth of financial data into meaningful and Bloomberg actionable information as well as we do.

Our engineers, developers, and data scientists work together to roll out new software daily that integrates seamlessly and immediately into our clients'

workflows. Our technology expertise is changing the world and makes a positive impact in our local communities. Bloomberg engineers are active members of the open source community, contributing to and implementing open source code in our products. And, 85% of our company profits go directly to Bloomberg Philanthropies to support lasting change in the environment, government innovation, education, arts, and public health. We have the following roles available:

Summer Internship:
https://careers.bloomberg.com/job/detail/93289 (June 27 – September 16)
Industrial Placement:
https://careers.bloomberg.com/job/detail/93291 (4-12 months)
Full Time Graduate Positions:
https://careers.bloomberg.com/job/detail/93145

Jump Trading

SILVER

What We Offer	
Summer Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	✅
Graduate Roles	✅

At Jump Trading, you will find a group of driven, dynamic people focused on researching, interpreting and capitalizing on the global trading markets. Headquartered in Chicago since 1999, Jump has expanded over the years as a global operation with offices in London, Bristol, Amsterdam, Singapore, Shanghai, Gurugram, New York, Hong Kong, Paris, Austin, and Sydney.

We are a privately-funded company that is owned and managed by trading professionals who have set high standards around trust and leadership in a quantitative trading environment. We trade across all major asset classes on multitudes of electronic exchanges around the world, with a strong track record of success through all market conditions.

Our casual atmosphere, culture of continuous learning and innovation, and philosophy of rewarding outstanding performance based on merit rather than tenure or title has attracted brilliant people from around world. We value our people at Jump and pride ourselves on being a diverse set of individuals. Employees have notable backgrounds from the trading industry, Silicon Valley, tech companies, startups, world renowned research labs, top tier Universities, and PhD programs.

Jane Street

Jane Street   `SILVER`

What We Offer	
Summary Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	❌
Graduate Roles	✅

Jane Street works differently. We are a quantitative trading firm active on more than 200 trading venues across 45 countries. As a liquidity provider and market maker, we help form the backbone of global markets. Our approach is rooted in technology and rigorous quantitative analysis, but our success is driven by our people.

Our bright, beautiful offices in the heart of New York, London, Hong Kong, and Amsterdam are open and buzzing with conversation. We come from many backgrounds and encourage travel between offices to share perspectives. Some of our best ideas come from bumping into a colleague at the office coffee bar.

Markets move fast. Staying competitive as we've grown has required constant invention—of new trading strategies, technology, and processes. We've found this is easier when you hire humble, kind people. They tend to help each other, and prioritize teamwork over titles.

We invest heavily in teaching and training. There's a library and a classroom

in every office, because deepening your understanding of something is considered real work. Guest lectures, classes, and conferences round out the intellectual exchanges that happen every day.

People grow into long careers at Jane Street because there are always new and interesting problems to solve, systems to build, and theories to test. More than twenty years after our founding, it still feels like we're just getting started.

As a Software Engineering intern, you'll learn how we use OCaml (our primary development language) in our day to day work, and gain exposure to the libraries and tools that are foundational to our internal systems.

During the program you'll work on two projects, mentored closely by the full-time employees who designed them. Some projects consider big-picture questions that we're still trying to figure out, while others involve building something new. Your mentors will work in two distinct areas, so you'll gain a better understanding of the wide range of problems we solve every day, from machine learning to systems administration to programming language design.

If you'd like to learn more, you can read about our interview process: https://blog.janestreet.com/applying-to-jane-street/ , meet some of our newest hires: https://www.janestreet.com/join-jane-street/get-to-know-us/ or get a sense of what our most recent intern projects looked like: https://blog.janestreet.com/what-the-interns-have-wrought-2021/

About You

We don't expect you to have a background in finance, OCaml, functional programming, or any other specific field—we're looking for smart people who enjoy solving interesting problems. We're more interested in how you think and learn than what you currently know. You should be:
- A top-notch programmer with a passion for technology
- Collaborative and courteous with strong interpersonal and communication skills
- Eager to ask questions, admit mistakes, and learn new things
- Fluent in English

Application process

Unfortunately we do not currently offer 6-month placements but we do have summer internships available. Most of our interns are in the penultimate year of their studies however we do make exceptions for some first year students. The majority of our full time graduate roles are filled through our internship program, however we do have additional graduate roles available for exceptional final year students.

There is no deadline for applications, but most of our software engineering internship roles are filled by the end of December.

WINTERMUTE

Wintermute `SILVER`

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Wintermute provides liquidity algorithmically across most vested exchanges in crypto, across CeFi and DeFi, on-screen and OTC, as well as supports high profile blockchain projects. At Wintermute, we believe in the decentralization of finance, and we believe that trading companies of the future are technology companies, not financial services providers.

Founded in July 2017 and, although we have accomplished so much since our founding, we are constantly building and growing. We strive to set forth the highest standards for our employees and have ambitious goals that we intend to achieve in the coming years. By joining Wintermute, you are choosing the unique opportunity to truly make an impact on systems and processes that are still being created. We've been fortunate to source some of the most talented individuals in the industry and we understand the

some of the most talented individuals in the industry and we understand the importance of learning and growing together. Collaboration, coaching, and mentorship are core to our business. If you truly want to learn alongside some of the smartest people in this space, Wintermute is the place for you.

Algorithmic Trading

At Wintermute, we develop and run market making, hft and quant strategies all major crypto exchanges across CeFi and DeFi. Unlike traditional trading firms, you will be responsible for your own "desk" and projects right from the start. You will have the opportunity to develop your own product (trading algorithms, trading strategies, adding new venues, etc), while also getting advice and guidance from very experienced traders and developers, including the founders/management team. You will get a lot of independence and responsibility right away, and you'll learn at an unprecedented speed! No legacy systems, no corporate bureaucracy, it is up to you to make an impact.

Wintermute - Algorithmic Trader Graduate 2022 (lever.co) https://jobs.lever.co/wintermute-trading/79e6f8fd-b0a1-415a-8298-c505ebcae798

Technology

At Wintermute you will have an opportunity to grow and make direct impact on

trading by developing and improving all the parts of the trading platform, data infrastructure and related software, while also getting advice and guidance from very experienced developers and traders, including the founders. You will get a lot of independence and responsibility right away, and you'll learn at an unprecedented speed! No legacy systems, no multiple levels of approvals, no bureaucracy; all developers report directly to CTO who is very hands on. It is up to you to make an impact! You will work alongside exceptionally sharp colleagues, learn how to write fail-safe code and improve performance and scalability of the trading system, a real challenge and a rare opportunity!

Wintermute - Algo trading / developer intern 2022 (lever.co) https://jobs.lever.co/wintermute-trading/f10f8888-2680-45a7-9ff5-e933cfa50d97

DeFi

Wintermute is known to be one of the largest algorithmic traders in DeFi. We support all major DEX, trading platforms, AMMs and we work with most major chains. Wintermute is an official market maker for many prominent blockchain projects and we actively support the DeFi ecosystem by investing in early stage projects, helping them kick-start and maintain liquidity and collaborating/co-creating products with promising projects. DeFi team is responsible for both trading and development, as well

as co-creating and building own tools and product in DeFi. To find out more about the role we are hiring for, please check out our link

Wintermute - Graduate Software Developer - DeFi (lever.co) https://jobs.lever.co/wintermute-trading/2263ff48-702c-473c-9ce1-e961a3ce2cce

Announcing Hack DeFi

Wintermute are launching a 4 Week hackathon which will offer hackers and opportunity to develop innovative DeFi solutions on any blockchain and compete for a generous prize pool. The Hack DeFi launch event is happening on 18th October at 5:30pm GMT, do ensure you sign up Hack DeFi with Wintermute — Encode Club https://www.encode.club/hack-defi/#form

GRAPHCORE

Graphcore

`SILVER`

What We Offer	
Summer Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	❌
Graduate Roles	✅

Who are we?

Founded in 2016 by Nigel Toon and Simon Knowles, Graphcore is a semiconductor scale-up. Our teams have created a completely new processor designed for AI compute – the Intelligence Processing Unit (IPU). Over the last five years we've scaled rapidly, now employing over 600 people globally with our Headquarters based in Bristol.

What do we do?

OUR IPU LETS INNOVATORS CREATE THE NEXT BREAKTHROUGHS IN MACHINE INTELLIGENCE

Graphcore has created a completely new processor, the Intelligence Processing Unit (IPU), specifically designed for artificial intelligence. The IPU's unique architecture means developers can run current machine learning models orders of magnitude faster. More importantly, it lets AI researchers undertake entirely new types of work, not possible using current technologies, to drive the next

We believe our IPU technology will become the worldwide standard for artificial intelligence compute. The performance of Graphcore's IPU is going to be transformative across all industries and sectors whether you are a medical researcher, roboticist or building autonomous cars.

Our team is at the forefront of the artificial intelligence revolution, enabling innovators from all industries and sectors to expand human potential with technology. What we do really makes a difference.

Our Graduates

As a Graduate, you will have the opportunity to work on high-profile and meaningful projects. We have developed a programme that allows you to enjoy on the job experience as well as building your knowledge through a comprehensive and tailored training and development plan.

"We are at the cutting edge of technology; I believe that we are at the beginning of an engineering revolution which is very exciting." Mrudula – Silicon Engineer

Working at Graphcore
There is a large amount of social activities from cycling, yoga, running and football right through to a board game group.

"One of the aspects I enjoy the most about working at Graphcore is everyone is happy to help and answer your questions." Arianna – Customer Support Engineer

2022 Opportunities – Graduate and Interns
We have opportunities available for graduates to join us in Cambridge and Bristol, in a variety of teams – Silicon Engineering, Product Support, Software, Operations

What we look for:
• Studying Computer Science, Electrical & Electronic Engineering, Physics or Mathematics
• Experience of using C++ and/or Python
• Active interest in semi-conductors, AI & Machine Learning

We also have some great intern opportunities for summer 2022, which are open to all year group students. This will allow you to gain some hands-on experience, and put your university learning into practice, with a 10-week summer internship.

Graduate applications open Mid October 2021 and Internship applications open early 2022

Interested in exploring opportunities, please visit:
https://www.graphcore.ai/careers
If you have any questions, please email:
students@graphcore.ai

SEEK:

Calling all scientists, engineers, & academics

2σ TWO SIGMA

Two Sigma · SILVER

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✕
Graduate Roles	✓

Two Sigma is a financial sciences company. We combine rigorous inquiry, data analysis, and invention to solve the toughest challenges across financial services. We're looking for people who see beauty in data and the possibilities it reveals. Researchers who see connections and patterns in unexpected places. Engineers who build tools that channel massive amounts of data into insights. And experts across business disciplines to help solve the toughest challenges in investment management, insurance, market-making, private equity, and venture capital.

Engineering

Build the tools and technologies that enable us to scale. Solve complex engineering challenges to turn data into action.

Quantitative Research

Develop inspired ideas through scientific thinking, curiosity, and precision.

Systematically test and expand hypotheses to shape company strategy.

Strategy & Operations

Grow our business around the world through creative thinking and operational excellence.

Data Science

Seek out patterns and trends in the world's data. Then harness these insights to help us forecast the movement of global markets.

Investment & Client Solutions

Deliver our investment services and innovative solutions to a diverse client base.

Life at Two Sigma

At Two Sigma, we're proud of our company culture: a collaborative and diverse environment that challenges and empowers our employees to find smart solutions to the world's hardest problems.

We want to help everyone here grow and get better, so we offer a myriad of internal programs and initiatives that encourage teaching, growth, and mobility.

NewTS

Two Sigma's Early Careers Program (NewTS) integrates Engineering and

Modeling campus hires into life at Two Sigma.

Interns

Spend the summer working in a creative and hands-on environment that gives you the freedom to innovate, explore, and dig into unique and complex challenges.

Headquartered in New York City, we also have global offices in Houston, London, Shanghai, Tokyo, & Hong Kong. Begin your career at Two Sigma and apply online at twosigma. com/careers

CITADEL | CITADEL | Securities

Citadel   SILVER

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Citadel is one of the world's leading alternative investment managers. Citadel manages the capital of prominent investors from around the world including retirement programs, endowments and foundations, and sovereign wealth funds. Citadel Securities is a leading global market maker, delivering a broad array of fixed income and equity products to banks, broker-dealers, government agencies, corporations, insurers, and sovereign wealth funds. Analyzing global markets with discipline and focus, we employ a diverse range of strategies in an effort to bring capital to its fullest potential and deliver consistent investment returns of our clients. We do this by working harder, seeing farther, and by empowering the world's most talented minds with the tools and culture they need to achieve peak performance. Our firm is guided by its core values of championing honesty, rewarding excellence, continuously learning, solving problems together, and earning the win. Learn more below about our business streams recruiting interns and graduates!

Quantitative Trading
Curiosity gets you up in the morning – and your relentless drive to improve propels you through the day. You've got a healthy appetite for taking calculated risks and are passionate about the markets. You're also exceptional at statistics and math. Highly motivated, you can command a room by communicating advanced concepts in a concise way. You'll get to apply and hone your investment and trading skills in a structured program that allows you to work side-by-side with, and learn from, those who are thriving in the field.

Quantitative Research
Our team of Quantitative Researchers analyze historical and current information through statistical and quantitative modeling, as well as predictive analytics, to identify and capture opportunities. Quantitative Researchers collaborate with technology, investment, and trading colleagues to consistently innovate and help us reach greater heights. You'll get to apply and hone your quantitative skills in a structured program that allows you to work side-by-side with, and learn from, those who are thriving in this exciting and growing field.

Software Engineering

Software Engineers create next generation software solutions to support business areas across the firm. Software Engineers work closely with business leaders to develop and deliver custom software solutions that optimize performance and efficiency. You'll get to apply and hone your engineering skills in a structured program that allows you to work side-by-side with, and learn from, those who are thriving in the field.

Citadel and Citadel Securities are seeking intellectually curious students to apply for Quantitative Research, Software Engineering and Quantitative Trading roles. Please join us across our virtual events series to learn more about our team and firm, as well as well as our full time, internship and spring programme opportunities! Open positions, unparalleled opportunities, apply now at www.citadel.com/careers/students/

ARCTIC LAKE

Arctic Lake   SILVER

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✕
3rd Year Industrial Placement	✓
Graduate Roles	✓

At Arctic Lake, we build and operate smart trading platforms with state-of-the-art, ultra low latency, highly reliable technology.

Our capital market experience, along with our refined proprietary core technology, make us highly appealing and effective to our vast range of financial services clients.

Since launching in 2015, Arctic Lake has remained privately owned, meaning we can focus on long-term growth and stability and maintain our agile and flexible structure.

Our developers are an elite bunch, who can approach problems with a unique brand of creativity. We have achieved incredible things so far with our small team, and we're looking to make space for new, fresh and innovative voices. We have opportunities for graduates, as well as an industrial placement scheme for incoming fourth-year students. If you come to work for us, you'll be based in our London HQ and will jump straight in to exciting and substantive work from day one. We let our interns choose what they work on, so you have the opportunity to shape your own experience.

Trust and flexibility rule our company culture, and we believe that given the room to explore, our team can accomplish anything.

PDT PARTNERS

PDT Partners

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✕
3rd Year Industrial Placement	✓
Graduate Roles	✕

PDT Partners has had significant success over the past 25+ years as a quantitative investment manager by using a scientifically rigorous approach to develop and deploy trading strategies. Our technology team consists of software, systems and data engineers. We're looking for bright and uniquely excellent engineers to be part of a talented and creative community. You may be able to help us as we strive to be one of the best investment managers in the world.

Prior experience in finance isn't expected, but we do look for intellectual curiosity that runs deep. Our technologists work together in small teams on challenging real-world problems, contributing to our technology-critical algorithmic trading business. We build applications using C++, Python and Java, as well as the latest cloud and open source technologies.

We're also committed to being a fantastic place to work. Our engaging and unique culture is critical to our success and longevity. Some of the key values that define us are:

Collaboration - PDT actively fosters a culture of collaboration and innovation. We believe the best solutions arise from teamwork, candid debate, and open sharing of knowledge and ideas.

Shared Success - Our success is shared across the firm; we recognize, appreciate, and reward the contribution and impact that PDTers make.

Partnership - Our open partnership structure reinforces a culture of merit and ownership and allows us to attract, reward, and retain the next generation of PDT leaders.

Diversity - We celebrate the diverse and rich set of skills, backgrounds, and interests that PDTers bring.

Fun - We believe work is but one part of a full life – we support professional and personal well-being. PDTers get together for family picnics, wine tastings, poker tournaments, fun runs, board-game nights and many more!

Giving Back - Tutoring of school students, our charitable donation matching, and philanthropic partnerships are some of the ways we contribute to the larger community.

If you are a MEng Computing Student looking for a 6-month Industrial Placement please send your CV to imperial2022@pdtpartners.com

O R I G I N

Origin   BRONZE BESPOKE

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✕
3rd Year Industrial Placement	✓
Graduate Roles	✓

Origin's software has transformed the debt capital markets, completely streamlining the way companies and investment banks work together to raise capital. Having launched just over 6 years ago, Origin is now used by over **20 investment banks** and **90 borrowers** in over **50 cities** worldwide. Our clients include some of the largest investment banks and borrowers globally, including **Barclays, Citi, and Telefonica**. Origin's ambition is to establish a digital, end-to-end, straight-through-processing issuance platform for international fixed-income capital markets. We secured our Series A funding round in 2020, lead by **Clearstream** and the **Luxembourg Stock Exchange**.

At Origin, you'll get to work with exciting modern technologies: **Django** to write our backend services, **Angular11** to create our web app, **Kubernetes** and **Docker** to schedule and run our services, and **AWS** to run our infrastructure.

Origin is looking for smart and driven Imperial computer science and engineering graduates to join our team as we rapidly grow our product offering in the following roles:

Graduate Product Manager 2022- You'll be responsible for figuring out what/why/how we develop the Origin platform to best satisfy our customers. You'll be constantly problem-solving and sit at the intersection of our clients, the business team, the developers, designers. This is an incredibly challenging, fast-paced role so it's not for the faint hearted!

Graduate Software Engineer 2022 (Full Time & Industrial Placement) - You will be peer mentored, trained and expected to rapidly develop your skillset, working on new products and features. You will gain exposure to both the backend and frontend and over time you'll choose which one to specialize in.

We have a strong focus on testing & code quality, as well as continuous learning (Annual £500 learning budget, hackathons, training platforms and conference attendance). We hold regular company socials and outings. All roles are part work from home (we provide a WFH budget).

We have a proven track-record in scaling juniors very rapidly!

To find our more and apply please visit https://www.originmarkets.com/

Palantir

Palantir **BRONZE BESPOKE**

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

Palantir Technologies builds the world's leading platforms for data-driven operations and decision-making, Palantir Gotham and Palantir Foundry. More than 2500 Palantir employees work in offices around the globe, including in Palo Alto, Washington D.C., New York, London, Paris, Sydney, Tokyo, Abu Dhabi, and São Paulo.

Palantir was founded in 2004 by three software engineers and a philosopher to help intelligence agencies make better use of data while preserving privacy and civil liberties. Our first product was Palantir Gotham, a platform that helps users find bad actors hiding in complex networks, such as terrorist cells, trafficking rings, and money laundering schemes. Our early success in government led us to work with commercial companies, international governments, and nonprofits. In 2014, we introduced Palantir Foundry, a platform that brings organizations together

around data to transform how they operate.

Today, our partnerships power critical operations for defense and civilian government agencies worldwide and commercial companies in dozens of industries. We also donate our software and services to select nonprofits dedicated to improving human lives.

We develop long-term partnerships with organizations, working together to help them realize the value in their data. Unlike other Silicon Valley companies that try to "disrupt" established industries, we help the institutions that power our economy become more modern and datadriven. We believe that the most effective transformation starts with humans, and our approach is built around empowering them. Together with our customers, we seek out the most important problems, find the people responsible for solving them, and arm them with our technology. The results speak for themselves:

- Manufacturers are connecting local decisions with global ones, from the factory floor to the C-suite.
- Healthcare institutions are accelerating the rate of scientific discovery.
- Banks are growing business while minimizing risks.
- Defense organizations are bringing intelligence to the tactical edge.
- Complex multinationals are optimizing global logistics and boosting customer satisfaction.
- Law enforcement agencies are

bolstering security without compromising on data protection.

- Traditional media organizations are staying ahead of disruptive change in their organizations.

Palantir interns work alongside full-time employees, and challenged accordingly with high-impact work. We're looking for purpose-driven individuals who enjoy learning and working independently. It doesn't matter what languages you know when you join us, but it does matter that you can pick new ones up quickly, as Palantir engineers often face novel problems whose solutions demand new skillsets. Beyond technical skills, Palantir engineers work with people from a variety of backgrounds, both internally and externally. You may find yourself in situations that require empathy, collaborating not just with other engineers but with users and nontechnical stakeholders.

You'll have a mentor by your side all summer who helps you navigate Palantir and fosters your growth as you take on these challenges, from learning new technical skills to engaging with different individuals. At the same time, you'll be granted the space to think for yourself, and trusted to effectively manage your own time and priorities.

More information is available at www. palantir.com/students/

Capchase

What We Offer	
Summary Internship (1st Year)	✅
Summer Internship (2nd Year)	✅
3rd Year Industrial Placement	✅
Graduate Roles	✅

Capchase is an early-stage startup radically transforming how companies fund their growth by allowing them to receive upfront access for their forward-looking revenues. We are shaping a new way for recurring revenue companies to finance their growth.

Capchase believes that founders know best how and when to scale their business. We're founders ourselves, with a team that has years of experience scaling SaaS from pre-revenue to millions in ARR. So we know firsthand the pain of debt and worry of a new venture: the ineffective financing, the austerity of bootstrapping, the dilution dilemma every founder faces.

We are looking for passionate engineers who love building and learning willing to take on many of our current challenges.

As an early technical hire in this exciting venture, you'll design, implement and deliver features, ideate and execute its architecture growing together with us while building an amazing product!

You'll solve hard problems and have a deep impact on the end-product. Expect to work in a fast-paced environment, with amazing engineers who believe in our mission.

You'll have a mentor by your side throughout your internship who will help you foster your growth as you take on these challenges. At the same time, Capchaser's value their ownership so you'll be granted the space to think for yourself. We trust you to effectively manage your own time.

Apply here: https://www.capchase.com/careers

CROWDSTRIKE

Crowdstrike `BRONZE BESPOKE`

What We Offer	
Summer Internship (1st Year)	✗
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✗
Graduate Roles	✗

ABOUT US

CrowdStrike was founded in 2011 to fix a fundamental problem: The sophisticated attacks that were forcing the world's leading businesses into the headlines could not be solved with existing malware-based defences. Co-founders George Kurtz and Dmitri Alperovitch realized that a brand-new approach was needed — one that combines the most advanced endpoint protection with expert intelligence to pinpoint the adversaries perpetrating the attacks, not just the malware.

SUMMER INTERN PROGRAM

CrowdStrike isn't just the next step in navigating your career—it's a quantum leap forward. Join us on our mission to stop breaches by checking out our Summer Internship Program.

The CrowdStrike Global Summer Intern Program offers international collaboration, impactful projects, reallife scenarios, mentoring, an executive speaker series and unique social activities. In addition, you can expect competitive pay, holiday pay and development and wellbeing workshops. CrowdStrike has recently been recognized by FORTUNE as Best Workplace in Technology and for Millennials 2020.

Program duration is usually 10-12 weeks and internship tracks include Engineering, Data Science, Incident Response, Red Teaming, Intelligence and much more! Upon completion of our intern program, we may also offer opportunities to secure graduate positions– continuing your CrowdStrike journey.

If you'd like to secure your career with the global leader in cyber security, go ahead and discover an internship with us today.

APPLY NOW

Apply via our Careers Page
https://www.crowdstrike.com/careers/university-interns/

Find Out More: university.Recruiting@crowdstrike.com

IMC Trading

BRONZE BESPOKE

What We Offer	
Summer Internship (1st Year)	✕
Summer Internship (2nd Year)	✓
3rd Year Industrial Placement	✓
Graduate Roles	✓

At IMC, technology is not a department; it's at the heart of everything we do. Since the late 1980s, we've pioneered the use of technology to advance the development of market making and low-latency trading. Today, our technologists work alongside IMC traders in multidisciplinary teams to push the limits of possibility, and then look beyond. In our fast-paced environment, short feedback loops mean projects worked on in the morning can enter production the next day.

As a **software or hardware enginner intern,** our 12-week internship is your chance to learn what it means to be an engineer in a real-world environment. It's about much more than just writing code: you'll gain insight into algorithmic complexity and data structures or IMC's FPGA development process, get to know IMC's unique business model and build valuable connections with our trading and technology teams. Where you go from here is up to you – the majority of our interns secure a graduate position before the end of the programme.

As a **graduate software engineer**, your IMC journey begins with a seven-week global trading traineeship led by our seasoned traders and technologist, during which you'll link up with graduates from all three IMC regions.

You'll then continue your training in your local office for a further two months, working alongside a seasoned software engineer. What happens next is up to you - you could find yourself working on software, hardware, advanced networks, algorithms or anything in between. We'll help you to find your own niche as you use your creativity to problem- solve and spot new opportunities.

READY TO APPLY?
Our hiring process, including tips on applying and interviewing with IMC, is described on our website https://careers.imc.com/eu/en/hiring-process. Now it's up to you! Apply today to start your journey with IMC.

BANK OF AMERICA

Bank of America   BRONZE

What We Offer	
Summer Internship (1st Year)	✅
Summer Internship (2nd Year)	❌
3rd Year Industrial Placement	✅
Graduate Roles	✅

As one of the world's leading financial institutions, we support 66 million customers in finance, from individuals, to businesses, governments and institutions. With a 200,000 strong workforce in more than 35 countries, you'll find us all over the world, from the Americas to Europe, the Middle East & Africa and Asia, helping to make our customers lives better. And, we care about supporting our colleagues across the globe as much as our customers. In 2021, we were ranked as one of the "100 Best Companies to Work For" for the third consecutive year by Fortune magazine and the global research and consulting firm Great Place to Work®.

We know it's important to work for what matters. Here, you'll discover a career with global and local impact. You'll work in a collaborative team with responsibilities from day one, and plenty of opportunities to sh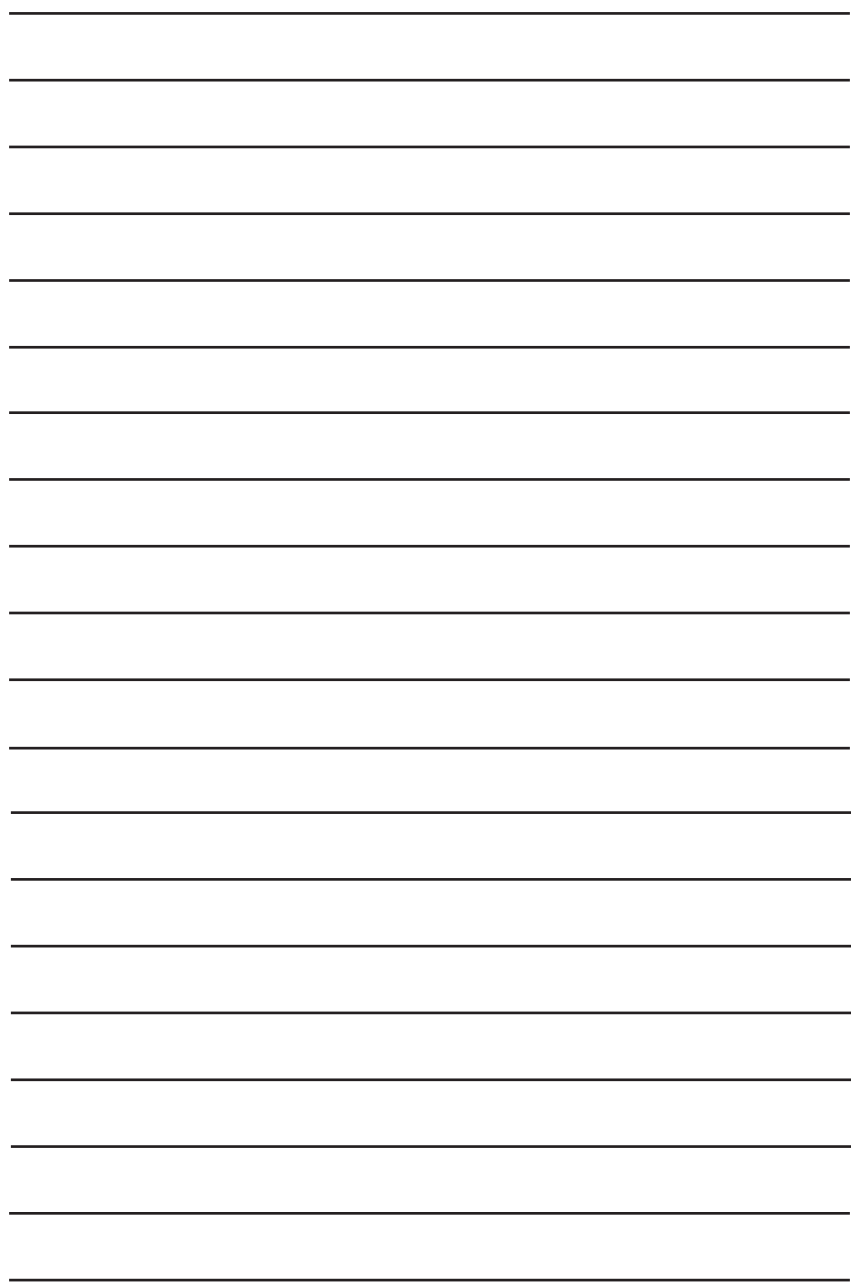ape your career. And, through our networks, clubs and events you'll find friendships and experience our wonderfully inclusive culture.

The worlds of sustainable finance, workplace culture and technology are evolving fast. Together we can shape them to be smarter, greener, safer and more inclusive.

From apprenticeships to internships, industrial placements to full-time roles, you'll find an opportunity to lead change with us. Our Insight program will help you learn and grow in a whole new way while you're at university, and through our summer internships, you'll discover what worlds you'd like to shape when you start your career.

Our analyst and associate graduate programs are where you'll start to really make an impact. You'll create a career that works for you, with opportunities to start your journey in a range of areas: Compliance, Corporate Audit, Corporate Treasury, Global Corporate & Investment Banking Credit, Global Corporate & Investment Banking, Global Markets, Global Research, Global Transaction Services, Market Risk, Quantitative Management and Technology.

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